

RTCA Special Committee 209

ATCRBS / Mode S Transponder MOPS Maintenance

Meeting #7

In Joint Session with Eurocae WG-49

**Eurocontrol Headquarters, Brussels
20 – 24 August 2007**

SARPs CPs for MOPS Changes

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SUMMARY

In this Working Paper you will find identified the Change Proposals (as proposed in the State Letter from ICAO) which will be included in Amendment 82 of Annex 10. This Amendment has been adopted by the ICAO ANC in February 2007, and will be applicable in November 2007. I have reviewed each of the identified CPs and have indicated whether and/or where any change may be necessary in either or both MOPS documents.

Regarding CP numbers for those amendments, here is the table listing those at the last WG-B meeting prior to SCRSP/1:

Change Number Assigned by Rapporteur	Title of Change	Final Working Paper	Originating Working Paper	DO-181D § (if needed)	ED-73C § (if needed)
S/1	Clarification on the Use of Lockout	Flimsy B/3-2	WP/B/3-6	N/A	N/A
S/2	SARPs Change for Transponder Unlawful Interference Features		WP/B/5-12	N/A	N/A
S/3	Transponder Performance in the Presence of CW Interference		WP/B/5-10	Done 2.2.8.6	Needs new CW section
S/4	SARPs Change for Updating the Data Link Capability Report		WP/B/5-14	Made by GF 2.2.19.1.12.8	Need to fix 3.21.1.12.e.(3)
S/5	Transmission Rate for ES/NT on Surface with no navigation	WP/B/6-08A	WP/B/5-21	Made by GF 2.2.23.1.3 2.2.23.3.1 2.2.23.3.8	Needs new ES/NT Section
S/6	Criteria for Broadcast of Surface Format	WP/B/7-52 Rev 1		Need to fix 2.2.18.2.7.c 2.2.23.3.7	Need to fix 3.20.2.7.b 6.2.13
S/7	Validation of on-the-ground status with a Squat Switch (partially revised in WP/B/7-22 in S/15 below)	WP/B/6-04		Need to fix 2.2.18.2.7.b 2.2.18.2.7.c 2.2.23.3.7	Need to fix 3.20.2.7.b 6.2.13
S/8	To allow a transponder to reply to a Comm A if it can't buffer the Comm A message	WP/B/6-23		Need to fix 2.2.13.3.1 2.2.19.1.1 Figure 2-16	Need to fix 3.17.3.c 3.21.1.1 Figure 3-15
S/9	Correction of a reference	WP/B/6-45		N/A	N/A
S/10	Changes to the Structure of Annex 10 Volume IV	Flimsy 2 Rev 3	WP/B/7-07	N/A	N/A
S/11	SARPs CP for the Transmission and Reception of Extended Squitter	WP/B/7-08 Rev 2		N/A	N/A
S/12	TIS-B SARPS	WP/B/7-15 Rev 3		N/A	N/A
S/13	Stochastic Lockout Override and the use of II code 0	WP/B/7-17 Rev 1		N/A	N/A

Change Number Assigned by Rapporteur	Title of Change	Final Working Paper	Originating Working Paper	DO-181D § (if needed)	ED-73C § (if needed)
S/14	25 foot altitude quantization	WP/B/7-42 Rev 2	WP/B/5-11	Need to fix 2.2.13.1.2.a.(2)	Need to fix 3.17.1.b.(1).(ii)
S/15	Surface State Validation (partially revises WP/B/6-04 in S/7 above)	WP/B/7-22		Need to fix 2.2.18.2.7.b 2.2.18.2.7.c 2.2.23.3.7	Need to fix 3.20.2.7.b 6.2.13
S/16	ES Altitude Insertion	WP/B/7-26 Rev 1		N/A	N/A
S/17	Transponder Zeroing of Data Link Capability Bit	WP/B/7-35 Rev 3		Need to fix 2.2.24.4	New Version Number Section In new ELS
S/18	Civil - Military Interoperability with Mode S Format 22	WP/B/7-39 Rev 3		Need to fix Figure 2-4 Figure 2-5	Need to fix Figure 3-3 Figure 3-4
S/19	SARPS Editorial Issues to Meet ICAO Standards Recommendations	WP/B/7-19		N/A	N/A

Following SCRSP/1, because of the slow process to review SCRSP/1 material, some additional CPs have been added in SCRSP/1 material. Here are those resulting from the Paris meeting in October 2005 (none from the 2005 May meeting in Brisbane):

Change Number Assigned by Rapporteur	Title of Change	Final Working Paper	Originating Working Paper	DO-181D § (if needed)	ED-73C § (if needed)
S/1 (incorporated in SCRSP/1 material)	CP for transmission of acquisition squitter when surface position extended squitter is suppressed	WP B/9-10 Rev 1	WP B/9-10	Need to fix 2.2.23.1.7 ref:2.2.18.2.6.b.4	Need to fix 3.21.2.6.7 ref:3.21.2.6.b
S/2 (incorporated in SCRSP/1 material)	SARPs CP to clarify maximum number of IC codes	WP B/9-08	WP B/9-08	N/A	N/A
S/3 (incorporated in SCRSP/1 material)	Proposed SARPs clarification with respect to on- the-ground status	Flimsy B/9-3	WP B/9-26	See WP B/10-18 2.2.14.4.6	See WP B/10-18 3.18.4.5

The meeting in Montreal (May 2006) further suggested additional CPs for Volume 4, the first 5 ones in the list below have been incorporated in SCRSP/1 material (I browsed the minutes to be sure of this) :

Change Number Assigned by Rapporteur	Title of Change	Final Working Paper	Originating Working Paper	DO-181D \$, (if needed)	ED-73C \$ (if needed)
S/1	SARPS CP for Temporary Alert Timer	WP B/10-17	WP B/10-17	Done 2.2.18.2.7.a	Need to fix 3.20.2.7.a
S/2	Level 2 Transponder reporting 0 in the CA field (see working paper ModeS-WP02-03 on same topic)		WP B/10-18	Need to fix 2.2.14.4.6	Need to fix 3.18.4.5
S/3	SARPS CP to correct the Uplink and Downlink Format Summary Figures		WP B/10-20 Att. 1	N/A	N/A
S/4	SARPS CP to correct the Uplink and Downlink Format Summary Figures		WP B/10-20 Att. 2	N/A	N/A
S/5	SARPS CP to correct the Uplink and Downlink Format Summary Figures		WP B/10-20 Att. 3	N/A	N/A
S/6	SARPs CP for a Note Clarifying the Use of the X bit	WP B/10-15 Rev 1	WP B/10-15	Might need to fix 2.2.4.1.2	Might need to fix 3.5.2